

Dynamic neural representations in motor learning: Technical and empirical contributions

Citation for published version (APA):

Reithler, J. (2007). *Dynamic neural representations in motor learning: Technical and empirical contributions*. [Doctoral Thesis, Maastricht University]. Datawyse / Universitaire Pers Maastricht. <https://doi.org/10.26481/dis.20071024jr>

Document status and date:

Published: 01/01/2007

DOI:

[10.26481/dis.20071024jr](https://doi.org/10.26481/dis.20071024jr)

Document Version:

Publisher's PDF, also known as Version of record

Please check the document version of this publication:

- A submitted manuscript is the version of the article upon submission and before peer-review. There can be important differences between the submitted version and the official published version of record. People interested in the research are advised to contact the author for the final version of the publication, or visit the DOI to the publisher's website.
- The final author version and the galley proof are versions of the publication after peer review.
- The final published version features the final layout of the paper including the volume, issue and page numbers.

[Link to publication](#)

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal.

If the publication is distributed under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license above, please follow below link for the End User Agreement:

www.umlib.nl/taverne-license

Take down policy

If you believe that this document breaches copyright please contact us at:

repository@maastrichtuniversity.nl

providing details and we will investigate your claim.

Stellingen behorende bij het proefschrift

Dynamic neural representations in motor learning:
Technical and empirical contributions

Joel Reithler

1. It is feasible and informative to simultaneously record detailed movement-related behavioral data and functional MR images to better describe brain-behavior relationships. *(this thesis)*
2. Continuous motor sequence learning is mainly characterized by changes in neural efficiency, not organization. *(this thesis)*
3. Embodied simulations during action observation engage widespread activations in cortical motor regions beyond the classically defined mirror-neuron system. *(this thesis)*
4. Experience-dependent modulations in brain activation during action observation can be identified based on nonvisual motor learning. *(this thesis)*
5. Ideas not coupled with action never become bigger than the brain cells they occupied. *(Arnold H. Glasgow, no further bibliographic information available)*
6. During the chess game in which IBM's Big Blue beat Kasparov, a human operator had to move Big Blue's chess pieces. This nicely illustrated the need for further research on motor control processes. *(mentioned in Rosenbaum's 'The Cinderella of Psychology: The neglect of motor control in the science of mental life and behavior' (2005))*
7. In science one tries to tell people, in such a way as to be understood by everyone, something that no one ever knew before. Unfortunately, sometimes the result is the exact opposite. *(based on a quote by P.A.M. Dirac, 1977)*
8. Because journal articles which have been published more than 15 years ago are generally not available online, the probability that such papers will get cited is negatively correlated with the distance between a given researcher's office and the university library.

Maastricht, 09-09-2007